

# PATENT ABSTRACTS OF JAPAN

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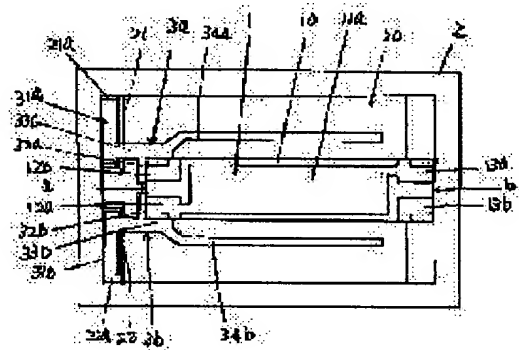
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## (54) CRYSTAL OSCILLATOR

### (57)Abstract:

PROBLEM TO BE SOLVED: To provide the crystal oscillator with excellent shock resistance.

SOLUTION: In the case of fixing at least a connection fixing end of a crystal vibrator 1 to step difference parts 21, 22 of a package 2, they are bonded via two support members 3a, 3b each made of an elastic metallic flat member. Furthermore, the support members 3a, 3b are formed with extended bodies 34a, 34b for absorbing shock extended from vibration support flat parts 31a, 31b or medium arms 33a, 33b along the lengthwise direction of the crystal vibrator 1 in addition to stationary flat parts 31a, 31b, vibrator support flat plates 32a, 32b and the medium arms 33a, 33b coupling both the flat plate parts 31a, 32a, 31b, 32b.



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